BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 5000000.00

Name of Work: Detailed Estimate for the work of Construction of compound wall at pump house in ward No- 02.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No. KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.3/ PWD SR 2015-16	cum							
	New SSM wall at pump house		1	19.10	1.30	0.60	14.90		
			1	24.80	1.30	0.60	19.34		
	for Solid Block Masonry		1	30.00	0.75	0.40	9.00		
			1	10.50	0.75	0.45	3.54		
	for RCC drain		1	40.50	0.90	0.90	32.81		
			2	15.00	0.60	0.60	10.80		
	levelling and lowering		3	18.70	10.00	0.35	196.35		
	5th pahse shivamandhira road		2	19.20	0.60	0.75	17.28		
			2	27.00	0.60	0.75	24.30		
	5th phase		2	19.00	0.60	0.75	17.10		
			2	34.00	0.60	0.75	30.60		
			2	30.00	19.00	0.40	456.00		
	Puttenahalli KHB		1	60.00	0.60	0.75	27.00		
			2	20.00	0.60	0.75	18.00		
			1	70.00	20.00	0.35	490.00		
	approach road		1	30.00	3.00	0.25	22.50		
							1389.52	192.24	267121.00
	Basic Rate	178.00							
	Area Weightage @ 8%	14.24							
	Total	192.24							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
2	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 130 (SR 2015-16)	cum							
			Vide Item No. 1				1389.52	85.60	118944.00
	Basic Rate for loading and unloading	68.00							
	Basic Rate for Haulage upto 4.00 k.m =1.28 X 2.20 X 4	11.26							
		79.26							
	Area Weightage @ 8%	6.34							
	Total	85.60							
3	KSRB-4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement at 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2, No. 12/ Item No. 4.2/ PWD SR 2015-16	Cum							
	New SSM wall at pump house		1	19.10	1.30	0.20	4.97		
			1	24.80	1.30	0.20	6.45		
	for Solid Block Masonry		1	30.00	0.75	0.15	3.38		
			1	10.50	0.75	0.15	1.18		
	for RCC drain		1	40.50	0.90	0.20	7.29		
			2	15.00	0.70	0.15	3.15		
	Around Sump		2	18.50	1.75	0.20	12.95		
			2	7.00	1.75	0.20	4.90		
	5th pahse shivamandhira road		2	19.20	0.60	0.15	3.46		
			2	27.00	0.60	0.15	4.86		
	5th phase		2	19.00	0.60	0.15	3.42		
			2	34.00	0.60	0.15	6.12		
	Puttenahalli KHB		1	60.00	0.60	0.15	5.40		
			2	20.00	0.60	0.15	3.60		
	For road		1	30.00	3.00	0.15	13.50		
	road at Manavarthi thota Patch		1	135.00	1.70	0.15	34.43		
			1	60.00	1.10	0.15	9.90		
							128.94	5236.92	675255.00
	Basic Rate	4849.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	387.92							
	Total	5236.92							
4	KSRB 5.2.3 Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications KBS 5.1.13 Page No. 23/ Item No. 5.6 SR 2015-16	Cum							
	New SSM wall at pump house		1	19.10	0.50	3.30	31.52		
			1	24.80	0.60	2.60	38.69		
	5th pahse shivamandhira road		2	19.20	0.50	0.90	17.28		
			2	27.00	0.50	0.90	24.30		
	5th phase		2	19.00	0.50	0.90	17.10		
			2	34.00	0.50	0.90	30.60		
	Puttenahalli KHB		1	60.00	0.50	0.80	24.00		
			2	20.00	0.50	0.80	16.00		
							199.48	4135.32	824926.00
	Basic Rate	3829.00							
	Area Weightage @ 8%	306.32							
	Total	4135.32							
5	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications Page No. 119/ Item No. 15.0 SR 2015-16	sqm							
	New SSM wall at pump house		2	19.10		3.00	114.60		
			1	24.80		2.70	66.96		
	5th pahse shivamandhira road		4	19.20		0.40	30.72		
			4	27.00		0.40	43.20		
	5th phase		4	19.00		0.40	30.40		
			4	34.00		0.40	54.40		
	Puttenahalli KHB		2	60.00		0.40	48.00		
			4	20.00		0.40	32.00		
							420.28	99.36	41759.00
	Basic Rate	92.00							
	Area Weightage @ 8%	7.36							
	Total	99.36							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	KSRB 4.2.2 Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs. with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, **lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc**, including cost of all materials, labour HOM of machinery curing, complete as per specifications. Specification No. KBS 4.1.4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2015-16	Cum							
	New SSM wall at pump house		2	19.10	0.60	0.10	2.29		
			2	19.40	0.90	0.10	3.49		
	for Solid Block Masonry		2	30.00	0.20	0.15	1.80		
			2	10.50	0.20	0.15	0.63		
	Around Sump		2	18.50	1.75	0.12	7.77		
			2	7.00	1.75	0.12	2.94		
	Back filling		1	30.00	2.00	0.25	15.00		
	for RCC drain for bed		1	40.50	0.75	0.15	4.56		
	side walls		2	40.50	0.60	0.15	7.29		
			2	15.00	0.50	0.10	1.50		
			4	15.00	0.50	0.10	3.00		
	5th pahse shivamandhira road		2	19.20	0.50	0.10	1.92		
			2	27.00	0.50	0.10	2.70		
	5th phase		2	19.00	0.50	0.10	1.90		
			2	34.00	0.50	0.10	3.40		
	Puttenahalli KHB		1	60.00	0.50	0.10	3.00		
			2	20.00	0.50	0.10	2.00		
	Aproach aroad		1	30.00	3.00	0.12	10.80		
	road at Manavarthi thota		1	135.00	4.20	0.10	56.70		
			1	60.00	2.20	0.10	13.20		
	dipression filling		7	10.00	1.65	0.10	11.55		
							157.44	6198.12	975834.00
	Basic Rate	5739.00							
	Area Weightage @ 8%	459.12							
	Total	6198.12							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	KSRB 4.9.2 providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46/ PWD SR 2014-15	Quintal							
	for RCC drain 90 kg/cum		0.900	16.35			14.71		
				16.35			14.71	6980.58	102696.00
	Basic Rate	6463.50							
	Area Weightage @ 8%	517.08							
	Total	6980.58							
8	KSRB 4-6.4 . Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters, bittresses,buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2015-16	sqm							
			4	40.50		1.00	162.00		
			4	15.00		0.80	48.00		
							210.00	306.72	64411.00
	Basic Rate	284.00							
	Area Weightage @ 8%	22.72							
	Total	306.72							
9	RCC Precast covering slab for drain (10cm thick)	sqm							
			1	40.50		0.90	36.45		
			2	15.00		0.75	22.50		
	Missing Slabs		1	75.00		0.90	67.50		
							126.45	1865.00	235829.00
	BBMP Approved Rates	1865.00							
10	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. Page No 174 Item No 22.7 SR 2015-16	Sqm							
			1	135.00	4.20		567.00		
			1	60.00	2.20		132.00		
							699.00	97.20	67943.00
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	97.20							
12	Providing groove cutting for width of 5mm to 100m depth 80mm-100 including cost of cutting machine, generatoe & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot birumen fillars, and filler metal etc., including cost of conveyance of all materials,. Labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. do- for concrete pavement item no 22.8.1 Page No 178 SR 2015-16	Rmt							
			20	3.50			70.00		
			10	2.00			20.00		
							90.00	124.20	11178.00
	Basic Rate	115.00							
	Area Weightage @ 8%	9.20							
	Total	124.20							
12	KSRB 5-14 : Providing and constructing **precast concrete solid blocks** with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No 25/ Item No. 5.27/ PWD SR 2015-16	sqm							
			1	30.00		2.30	69.00		
			1	10.50		2.30	24.15		
							93.15	1018.44	94868.00
	Basic Rate	943.00							
	Area Weightage @8%	75.44							
	Total	1018.44							
13	KSRB 15.3.4 Providing 15m thick cement plaster in single coat with cement mortar 1:3,to brick masonry including rounding off corners wherever reuired smooth rendering, Providing and removing scaffolding, including cost of materials, labour, Curing complete as per specifications Page No. 109 Item No 15.12 SR 2014-15	sqm							
			1	30.00	2.20		66.00		
			2	10.50	2.20		46.20		
							112.20	199.80	22418.00
	Basic Rate	185.00							
	Area Weightage @ 8%	14.80							
	Total	199.80							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Supplying and fixing M.S rectangular poles made out of 2 equal angles of 65x65 mm welded together and fixed in CC (1:2:4) with 2 NOS 16 mm dia, M.S hold fast rods each of length 25 cms, including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete).Page No. 255/ Item No. 37.2 PWD SR 2015-16	Rmt							
	CLF 5th phase shivamandhira road		50	1.60			80.00		
			52	1.60			83.20		
	Puttenahalli KHB		50	1.60			80.00		
							243.20	**991.44**	**241118.00**
	Basic Rate	918.00							
	Area Weightage @ 8%	73.44							
	Total	**991.44**							
15	Providing and fixing M.S. Block pipe of 39 mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the two vertical poles (M.S rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the engineer in charge of work etc, complete including two coats of approved quality paint over one coat of shop paint, No. 255/ Item No. 37.4 PWD SR 2015-16	Rmt							
	CLF 5th phase shivamandhira road	3x2	6	27.00			162.00		
		3x2	6	20.00			120.00		
		3x2	6	34.00			204.00		
		3x2	6	19.00			114.00		
	Puttenahalli KHB	3x1	3	70.00			210.00		
		3x2	6	20.00			120.00		
							930.00	**338.04**	**314377.00**
	Basic Rate	313.00							
	Area Weightage @ 8%	25.04							
	Total	**338.04**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
16	Providing chain link fencing 50 mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall bed welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the engineer – in charge of work including two coats of approved quality paint over one coat of shop paint. No. 255/ Item No. 37.3 PWD SR 2015-16	Sqm							
	CLF		2	27.00		1.30	70.20		
			2	19.00		1.30	49.40		
			2	19.00		1.30	49.40		
			2	34.00		1.30	88.40		
			1	70.00		1.30	91.00		
			2	20.00		1.30	52.00		
							400.40	697.68	279351.00
	Basic Rate	646.00							
	Area Weightage @ 8%	51.68							
	Total	697.68							
17	Providing and fixing **M.S Gate as per** Cheaf Architect Drawing using 50mmX50mm 14 guage M.S hollow pipe frame work bent to ornamental shape as shape as shown in the drawing and 35mmX6mm and 16X16mm squre roads for verticals alternatively spaced at 4cms c/c in two halves and 40mmX6mm M.S flats for horizontal member and at at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of of rust and painted with anti corrosive paint (shop paint) etc., complete the work includes cost of all materials, labour charges for all item of work, hire charges of welding, cutting and grainding equipment, and electricity charges, with lead and lift loading and lunloading charges, etc., complete as per specification and drawing Page No.42 / I No. 7.37/ SR PWD 2015-16	sqm							
			5	2.75		1.75	24.06		
			2	8.00		1.50	24.00		
			1	18.70		0.50	9.35		
							57.41	3299.40	189418.00
	Basic Rate	3055.00							
	Area Weightage @ 8%	244.40							
	Total	3299.40							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
18	KSRB 7.5 Providing and fixing M.S.grill work for windows and ventillators weighing 21kg/sqm using M.S.flats or M.S square rods,or combination of M.S flats and square rods as er approved design,drawing including cutting steel section and welding the same to required pattern with a coat of red lead primer cost of materials,fixtures, labour and HOM of machinery complete as per specifications Page No. 32/ Item No. 7.9/ PWD SR 2015-16	kgs							
	Replacing Damaged Portiom of Grills at Pump House		9	2.00		0.45	8.10		
			2	4.50		0.45	4.05		
							12.15		
			12.15	21.00			255.15	90.10	22989.00
	Basic Rate	85.00							
	Area Weightage @ 6%	5.10							
	Total	90.10							
19	M.S Plate Page no VIII Sl no 234 code no 0766 SR 2015-16	Ton							
			1	0.30			0.30		
							0.30	50000.00	15000.00
	Basic Rate	50000.00							
	Total	50000.00							
							Sub Total		4565435.00
20	KRIDL Charges 8%								365235.00
21	1.5% of Quality control charges								68482.00
22	Miscellaneous charges								848.00
								Total	5000000.00
	(Rupees Fifty Lakhs Only)								

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2015-16
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Project Sub Division, Yelahanka Zone,
BBMP, Bangalore-92

Executive Engineer 18/2/16.
Project Division, Yelahanka Zone,
BBMP, Bangalore-92

ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00 lakhs
Rupees Fifty lakhs only
P-3110 14th Finance

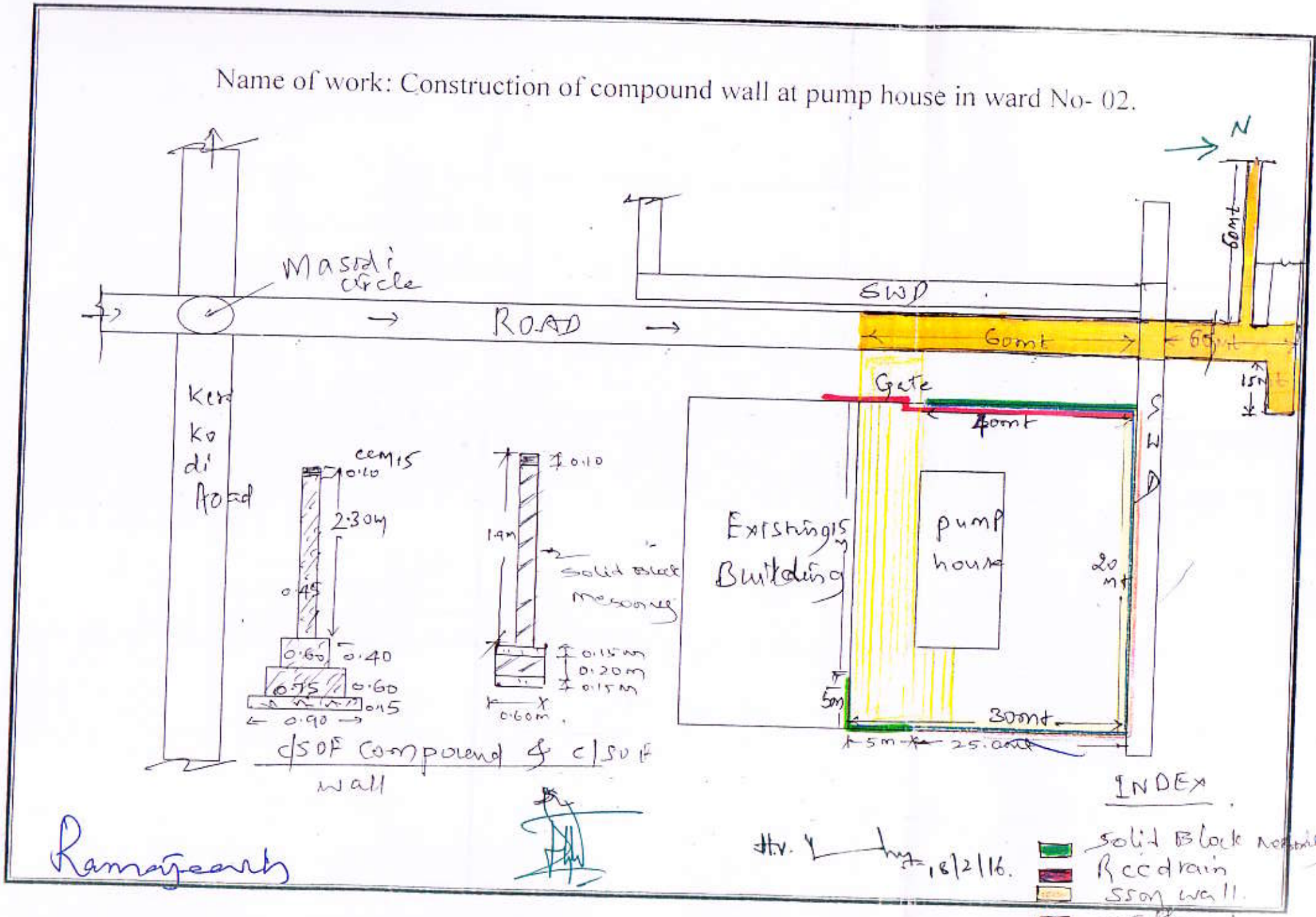
stered as EE( )No.
ject to conditions con
enclosed memo EE( )No.
Dt. Estimate
JC(q)AS/79/15-16
dated 18-2-2016 Rs. 50.00 lakhs

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92

Technical Sanction
Accorded For ...50-00 lakhs
Head of A/C...P-3110...
CER NO :...111... Dt:..18-02-16

TA CE (YNK)

Name of work: Construction of compound wall at pump house in ward No- 02.



c/s OF Compound & c/s of wall

Ramagoundla

Ramagoundla